

# Frederick County Government Energy Conservation Initiatives



Updated: January 21, 2011

Proj. No.	Lead Agency	Location	Description	Date Completed	Annual Savings
1	Mgmt Services	Winchester Hall	Eliminated use of loading dock door as entry door	2/14/2006	\$2,620
2	Maintenance	Health Dept	Replaced incandescent bulbs in bathrooms with fluorescent bulbs	2/27/2006	\$950
3	Facility Services	WH, CH, LEC	Use of micro-fiber cleaning products	5/1/2006	\$7,500
4	Maintenance	Health Dept	Night setback	2/27/2006	\$2,361
5	Maintenance	Law Enforcement Center	Installed 20 motion detectors in bathrooms & maintenance areas	11/18/2005	\$1,000
6	Maintenance	Landfill Admin Bldg	Night setback	3/13/2006	\$165
7	Maintenance	300 Scholls Lane	Night setback	1/19/2006	\$110
8	Maintenance	Walkersville Library	Night setback	12/16/2005	\$205
9	Maintenance	Scott Key Center	Night setback	11/23/2005	\$1,597
10	Maintenance	Middletown library	Night setback	12/8/2005	\$119
11	Maintenance	FCBEC	Night setback	1/10/2006	\$652
12	Maintenance	Brunswick Library	Night setback	4/17/2006	\$123
13	Maintenance	LEC/Fleet shop	Night setback	4/1/2005	\$726
14	Maintenance	LEC/meeting room	Night setback	4/1/2005	\$1,859
15	Maintenance	Head Start	Night setback	11/18/2005	\$1,581
16	Maintenance	Senior Center	Night setback	10/30/2005	\$723
17	Maintenance	Transit	Upgraded thermostats to digital - more precise control	5/1/2006	\$15
18	Maintenance	Independent Hose	Upgraded thermostats to digital - more precise control	5/2/2006	\$15
19	Maintenance	Green Valley Fire	Upgraded thermostats to digital - more precise control	2/8/2006	\$15
20	Mgmt Services	County-wide	Employee awareness campaign-conservation tips; EnergyDog as mascot	6/27/2006	TBD
21	Maintenance	Independent Hose	Replaced 2 5-ton rooftop HVAC units	7/1/2006	\$1,330
22	Maintenance	300 Scholls Lane	Replaced 2 5-ton rooftop HVAC units	7/21/2006	\$944
23	Maintenance	Adult Detention Center	Replaced 1 40-ton rooftop HVAC unit	7/14/2006	\$5,438
24	Maintenance	Law Enforcement Center	Installed variable speed drives on AHU's #3 and #4	8/1/2006	\$12,431
25	Maintenance	Head Start	Installed vestibule for main entrance	6/6/2006	\$3,019
26	Maintenance	Independent Hose	Replaced 12 single pane windows with double pane windows	6/8/2006	\$7,529
27	Maintenance	Winchester Hall	Night setback in West Wing	8/18/2006	\$1,678
28	Maintenance	Fleet Services Shop	Installed ceiling fans	10/23/2006	\$481
29	Maintenance	Old National Park	Installed new timer on street lights to reduce lighting times	12/27/2006	\$356
30	Maintenance	Various	Installed 200 occupancy sensors in bathrooms + copy rooms	6/1/2007	\$4,326
31	Facility Services	Winchester Hall	Custodial lighting adjustments after hours	4/1/2007	\$6,172
32	Facility Services	Winchester Hall	Daylighting 2nd and 3rd floor elevator lobbies on sunny days	4/1/2007	\$126
33	Fleet Services	Vehicle Fleet	Purchased 2 more flex-fuel vehicles bringing fleet total to 8	6/1/2007	N/A
34	Fleet Services	Vehicle Fleet	Purchased 5 hybrid SUV's (Escapes)	3/1/2007	\$7,210
35	Fleet Services	Service Vehicles	Eliminated take home shop vehicles based on low callouts	7/1/2006	\$5,775
36	BOE	Education	BOE presented to ECC members the practices/programs that BOE implemented		N/A
37	Fleet Services	Vehicle Fleet	Purchased 12 hybrid sedans (5 Prius-compact & 7 Malibus-midsize)	12/1/2008	\$2,499
38	DPW + Maintenance	DPW Building	Replaced HVAC system increasing efficiency	3/1/2007	\$10,000
39	Maintenance	430 Pine Ave	Replacement of 7 single glaze wooden windows & 3 single glaze wooden doors with aluminum double glaze windows & doors.	6/14/2008	\$586
40	Maintenance	Hwy Ops/Fleet	Installed programable thermostat	3/30/2008	\$450
41	Maintenance	430 Pine Ave	Installed ductless heat pump system	7/1/2008	\$1,038
42	Maintenance	Point of Rocks	New boiler & 14 SEER heat pumps, new programmable thermostats & new lighting (T12 to T8)	9/1/2008	\$3,314
43	Maintenance	Various	Replaced 1,247 T-12 lamps w/T-8 lamps & electronic ballasts	N/C	\$1,997
44	Maintenance	Law Enforcement Center	Removed hand dryers in restrooms	5/1/2008	\$229
45	Maintenance	Law Enforcement Center	Replaced T-12 light fixtures w/ T-8 lamps in Receiving & Boiler Room (36 fixtures)	4/1/2008	\$158
46	Maintenance	Green Valley Fire	Installed new furnace and 14 SEER heat pump	2/26/2009	\$3,890
47	Maintenance	520 N Market - Head Start	Installed 3 Airius thermal equalizers	2/10/2009	\$815
48	Maintenance	Head Start Building	Installed 3 Airius thermal equalizers	1/21/2009	\$187
49	Maintenance	Family Partnership	Installed 3 Airius thermal equalizers	2/23/2009	\$114
50	Maintenance	Emmitsburg Community	Replaced rooftop unit with gas and A/C unit	2/6/2009	TBD
51	Maintenance	Winchester Hall	Installed new dual flush handles in Winchester Hall	1/1/2009	\$230
52	Fleet Services	Highway Ops/Fleet	Purchased electric golf cart for hauling equipment on-site	4/1/2009	\$48
53	Maintenance	Independent Hose	Replaced 2 rooftop units with 13 SEER units (programmable t-stats & setbacks)	5/18/2009	\$1,154
54	Maintenance	Adult Detention Center	Replaced 3 rooftop units	8/15/2009	\$3,318
55	Maintenance	Winchester Hall	Replaced the HVAC system in East Wing & Annex	7/1/2008	\$35,000
56	DPW + Maintenance	Highway Ops/Fleet	Replaced HVAC system, increasing efficiency	2/1/2005	\$6,000
57	DPW + Maintenance	Head Start Building	Replaced HVAC system, increasing efficiency and added insulation	9/1/2005	\$9,000
58	Maintenance	Health Dept	Installed TPO roof	3/1/2009	\$1,244
59	Maintenance	Scott Key Center	Replaced HVAC system	9/1/2009	TBD
60	Fleet Services	Vehicle Fleet	8 vehicles downsized and/or replaced w/more fuel efficient vehicles (compact trucks)	6/1/2009	\$4,236
61	Maintenance	LEC Fleet Shop	Replaced 20 metal halide lights w/28-watt fluorescent light fixtures	7/1/2009	\$1,023
62	Maintenance	Parks Building (Pine Ave)	Replaced part of the roof with TPO	7/1/2009	\$49
63	Maintenance	Advanced Life Support	Replaced the roof with TPO	7/1/2009	\$66
64	Maintenance	Courthouse	Replaced 60 150-watt flood lights w/15-watt LED lights in 1 courtroom	7/1/2009	\$1,853
65	Maintenance	County-wide	Replaced approx. 350 T8 32-watt lights w/28-watt fluorescent lights	7/1/2009	\$320

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66	Maintenance	Health Dept	Installed wall-packs around building and scheduled to turn off parking lights after certain times at night.		\$5,766
67	Maintenance (MEA)	Law Enforcement Center	Installed 6 ceiling ambient lighting sensors in lobby area	10/1/2009	\$880
68	Maintenance (MEA)	Law Enforcement Center	Installed 35 ambient lighting sensors in stairways	11/1/2009	\$1,760
69	Maintenance (MEA)	Law Enforcement Center	Installed 10 occupancy sensors throughout building	1/1/2010	\$550
70	Maintenance (MEA)	Courthouse	Installed carbon monoxide sensors & controls in parking garage to manage 2 exhaust fans	10/1/2009	\$825
71	Maintenance (MEA)	Courthouse	Replaced 25 lighting fixtures in garages	3/1/2010	\$2,000
72	Maintenance (MEA)	Courthouse	Installed 20 occupancy sensors throughout building	1/1/2010	\$825
73	Maintenance (MEA)	Transit	Installed programmable timer on air compressor for when shop is closed	10/30/2009	\$275
74	Maintenance (MEA)	Transit	Installed 2 programmable thermostats for gas fired radiant heaters	3/1/2010	\$992
75	Maintenance (MEA)	Transit	Replaced 24 400-watt metal halides w/32-watt 6-lamp T8	1/1/2010	\$3,795
76	Maintenance (MEA)	Transit	Installed 4 250-watt metal halide fixtures w/32-watt 2-lamp T8	11/1/2009	\$605
77	Maintenance (MEA)	Westview Firestation	Installed 15 wall occupancy sensors throughout building	12/17/2009	\$550
78	Maintenance (MEA)	Westview Firestation	Installed 2 programmable thermostats for gas fired radiant heaters	2/1/2010	\$192
79	Maintenance (MEA)	Health Dept	Installed 12 zoned thermostat control sensors	2/1/2010	\$3,905
80	Maintenance (MEA)	Health Dept	Installed 10 additional occupancy sensors throughout building	2/1/2010	\$578
81	Maintenance (MEA)	Health Dept	Replaced 46 75-watt mercury vapor lights w/27-watt compacts in vestibule	5/1/2010	\$559
82	Maintenance (MEA)	DPW Building	Installed 20 wall occupancy sensors throughout building	12/16/2009	\$660
83	Maintenance (MEA)	Senior Center	Installed 2 16-SEER heat pumps with variable speed air handlers	4/1/2010	\$783
84	Maintenance (MEA)	Adult Detention Center	Replaced 8-SEER HVAC with 13-SEER with economizer	4/1/2010	\$352
85	Maintenance (MEA)	Hwy/Fleet Services Shop	Replaced 9 metal halide ceiling fixtures with 9 T5 fixtures in garage, and 2 wall mounted T12 40-watt with 2 T5 54-watt	4/1/2010	\$1,100
86	Maintenance (MEA)	Urbana Library/Senior Ctr	Replaced EMS control unit with new open program protocol programming capability & reconfigured program for exiting points	4/1/2010	\$12,760
87	IIT & Maintenance	Winchester Hall	Renovation of the IIT Data center with hot-aisle containment	6/10/2010	\$10,000
88	Fleet Services	County-wide	Fuel conservation plan for FY2009 and FY2010 (2 year average)	7/1/2010	\$165,000
89	Fleet Services	Vehicle Fleet	Replaced '95 Bronco & minivan with 2 Ford Fusions (hybrid)	7/19/2010	\$2,610
90	Maintenance	Rose Hill Maintenance Shop	Replaced 10 SEER heatpump with 15 SEER heatpump	8/20/2010	\$250
91	Fleet Services	County-wide	Updated the vehicle operator policy to include fuel conservation	11/1/2010	TBD
92	IIT	Winchester Hall	Teleconference capabilities in Winchester Room	12/1/2010	TBD

**ON-GOING ANNUAL ENERGY SAVINGS 2005 - 2010**  
**\$385,540**

**TOTAL ENERGY SAVINGS (Includes total fuel conservation) 2005 - 2010**  
**\$930,000**

